

Appl. No. 10/788,577
Amdt. Dated Feb. 5, 2007
Reply to Office Action of January 11, 2007

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Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

Claim 1 (currently amended): A liquid crystal display, comprising:

a backlight module having a light source, a light guide plate, a reflector, and a quarter-wave plate, the light source being disposed adjacent to one side of the light guide plate, and the reflector, the quarter-wave plate and the light guide plate being stacked together from bottom to top in that order; and ~~at least one of the following elements:~~ a plurality of V-shaped grooves formed directly in a top surface of the light guide plate, the ~~v-shaped~~ V-shaped grooves being configured for ~~diffusing-promoting random diffraction~~ of light; and

~~a diffuser positioned on top of the light guide plate; and~~

a liquid crystal panel having a reflective polarizing element, the liquid crystal panel being located on the backlight module, and the reflective polarizing element facing a top surface of the light guide plate.

Claim 2 (canceled).

Claim 3 (original): The liquid crystal display of claim 1, wherein the quarter-wave plate is attached to a bottom surface of the light guide plate.

Claim 4 (original): The liquid crystal display of claim 3, further comprising a diffuser disposed between the liquid crystal panel and the light guide plate.

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Claim 5 (original): The liquid crystal display of claim 4, further comprising a brightness enhancing film disposed between the diffuser and the liquid crystal panel.

Claim 6 (original): The liquid crystal display of claim 5, further comprising a plurality of printing-dots being defined on the bottom surface.

Claims 7-12 (canceled)

Claim 13 (currently amended): A liquid crystal display comprising:
a light guide plate;

a light source located by one side of the light guide plate;

a quarter-wave plate located under said light guide plate;

a reflector located under said quarter-wave plate;

a reflective polarizing element located above the light guide plate;

and

~~at least one of the following elements:~~ a plurality of V-shaped grooves formed directly in a top surface of the light guide plate, the ~~v-shaped~~ V-shaped grooves being configured for ~~diffusing-promoting random~~ diffraction of light; and

~~a diffuser positioned on top of the light guide plate, such a diffuser being interposed between the light guide plate and the reflective polarizing element.~~

Claim 14 (previously presented): A liquid crystal display comprising:
a reflective polarizing element;
a quarter-wave plate located under the reflective polarizing element;

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a light guide plate interposed between the reflective polarizing element and the quarter-wave plate, the light guide plate having a top surface facing and spaced from the reflective polarizing element, wherein the light guide plate has a plurality of V-shaped grooves defined in the top surface thereof, the V-shaped grooves being configured for promoting random diffraction of light;

a light source located on one side of the light guide plate; and
a reflector located under said quarter-wave plate.

Claim 15 (canceled)

Claim 16 (previously presented): The liquid crystal display of claim 14, wherein a diffuser is interposed between the light guide plate and the reflective polarizing element.

Claim 17 (previously presented): The liquid crystal display of claim 13, further comprising a plurality of printing-dots being defined on a bottom surface of the light guide plate.

Claim 18 (previously presented): The liquid crystal display of claim 13, wherein the top surface of the light guide plate faces the reflective polarizing element.

Claim 19 (previously presented): The liquid crystal display of claim 13, further comprising a brightness enhancing film disposed between the V-shaped grooves of the light guide plate and the liquid crystal panel or between the diffuser and the liquid crystal panel.

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Claim 20 (previously presented): The liquid crystal display of claim 17, wherein the quarter-wave plate is attached to the bottom surface of the light guide plate.